

## 2014 Wetland Conference Schedule

Thursday January 30, 2014

7:15 am Check-in sponsors and non-profit exhibitors

8:00 am Check-in and refreshments

9:00 am Opening Remarks – Ballroom B

9:15 am Welcome- **Collin O'Mara**- Ballroom B

9:30 am Plenary Speakers- Ballroom B

### Mr. Shawn Garvin

*Shawn M. Garvin is the Regional Administrator of EPA Region III. Shawn's career in intergovernmental affairs spans more than 20 years at the federal and local levels. In addition to his work at EPA, Shawn served as an aide to then Senator Joe Biden, D-Del., and worked on the staff of former New Castle County (Del.) Executive Dennis Greenhouse.*

### Dr. Robert Brooks

*Dr. Robert Brooks is a Certified Professional Wetland Scientist, a Professor of Geography and Ecology at the Pennsylvania State University, and Director and Founder of Riparia, a Center where science informs policy and practice. He has worked in wetlands science and wildlife ecology for over 30 years.*

10:15 am Coffee Break

10:30 am Concurrent Sessions

### Session I: GIS and Mapping – Chesapeake Room

10:30 am [NWI+ Web Mapper – New Information to Aid Wetland Conservation and Restoration in Delaware.](#)  
**Ralph Tiner**, U.S. Fish and Wildlife Service

10:55 am [Landscape Assessment of Wetlands for Conservation Priorities in Delaware.](#)  
**Ted Weber**, The Conservation Fund

11:20 am [GIS-based Watershed Resources Registry Supports Collaboration in Maryland.](#)  
**Ellen Bryson**<sup>1</sup>, **Ralph Spagnolo**<sup>2</sup>, and **Brittany Smith**<sup>2</sup>, <sup>1</sup>U.S. Army Corps of Engineers, <sup>2</sup>U.S. Environmental Protection Agency

11:45am [Advances in Wetland Remote Sensing.](#)  
**Victor V. Klemas**, University of Delaware

### Session II: Monitoring and Assessment- Silver Lake Room

10:30 am [Landscape Change and the Condition of Tidal and Non-tidal Wetlands in Southern Delaware's Coastal Watersheds.](#)  
**Matthew Jennette**, **Alison Rogerson**, and **Andy Howard**, Delaware Department of Natural Resources and Environmental Control

10:55am [Variation in coastal wetland condition and stressors among eight watersheds of the Delaware Estuary.](#)  
**Danielle Kreeger**<sup>1</sup>, **Angela Padaletti**<sup>1</sup>, **Alison Rogerson**<sup>2</sup>, **Andy Howard**<sup>2</sup>, **Martha Maxwell Doyle**<sup>3</sup>, **Kurt Cheng**<sup>1</sup>, and **Jessie Buckner**<sup>1</sup>. <sup>1</sup>Partnership for the Delaware Estuary, <sup>2</sup>Delaware Department of Natural Resources and Environmental Control, <sup>3</sup>Barnegat Bay Partnership.

11:20am [Developing a Sentinel Site Research and Monitoring Program in the Delaware National Estuarine Research Reserve.](#)  
**Lyndie Hice-Dunton, Christina Pinkerton, Drexel Siok, Kenneth Smith, Mike Mensinger, and Robert Scarborough,** *Delaware Department of Natural Resources and Environmental Control*

11:45am [Delaware National Estuarine Research Reserve: Marsh Bird Monitoring along the St. Jones River.](#)  
**Christina Pinkerton,** *Delaware Department of Natural Resources and Environmental Control*

### **Session III: Restoration-** Delaware Room

10:30am [Army Creek Marsh: Integration of Remediation Strategy and Wetland Restoration.](#)  
**Martin L. Schmidt<sup>1</sup>, Paul G. Johnson<sup>2</sup>, and Bruce Bayne<sup>1</sup>,** <sup>1</sup>*URS Corporation,* <sup>2</sup>*Atlantic Richfield Company*

10:55am [Beneficial Reuse of Dredge Material to Rebuild \*Spartina alterniflora\* Wetlands along Pepper Creek.](#)  
**Bart Wilson<sup>1</sup>, Alison Rogerson<sup>2</sup>, Andy Howard<sup>2</sup>, Dan Bower<sup>2</sup>, and Ariane Nichols<sup>2</sup>,** <sup>1</sup>*Delaware Center for the Inland Bays,* <sup>2</sup>*Delaware Department of Natural Resources and Environmental Control*

11:20am [Rehabilitating Historically Ditched Salt Marsh in Delaware's Inland Bays: The Slough's Gut Experience.](#)  
**Chris Pfeifer,** *Cardno ENTRIX*

11:45am [Comparison of Three Created Freshwater Wetland Types Implemented on Saturated Agricultural Land.](#)  
**Kenneth Smith, Drexel Siok, and Bob Scarborough,** *Delaware Department of Natural Resources and Environmental Control*

12:15 pm Lunch- Ballroom B

1:15 pm Poster and Networking Session (*titles listed below*)

2:00 pm Concurrent Sessions

### **Session IV: Wetland Biology** – Chesapeake Room

2:00pm [Northern Diamondback Terrapin Nesting Beach Restoration Project.](#)  
**Robert Meadows,** *Delaware Department of Natural Resources and Environmental Control*

2:25pm [The Effects of Sea Level Rise on the Population Distribution of the Fiddler Crab, \*Uca pugnax\*, in Southern Delaware Salt Marshes.](#)  
**Cynthia Hanson,** *University of Delaware*

2:50pm [The Conservation of Tidal Marsh Birds: Guiding action at the intersection of our changing land and seascapes.](#)  
**W. Greg Shriver and Rebecca Kern,** *University of Delaware*

3:15pm [Developing Coefficients of Conservatism to Advance Floristic Quality assessment in the Mid-Atlantic Region.](#)  
**Sarah Chamberlain and Hannah Ingram,** *Pennsylvania State University*

3:40pm [A Bio-based Living Shoreline Design for Salt Marsh Erosion Control.](#)  
**Joshua Moody<sup>1</sup>, Danielle Kreeger<sup>1</sup>, David Bushek<sup>2</sup>, and Angela Padaletti<sup>1</sup>,** <sup>1</sup>*Partnership for the Delaware Estuary,* <sup>2</sup>*Rutgers, the State University of New Jersey*

### **Session V: Wetland Modeling and Dynamics-** Silver Lake Room

2:00pm [Modeling the Response of a Tidally-driven Salt Marsh with a Complex Channel Network.](#)  
**Ryan Mieras, James T. Kirby, and Fengyan Shi,** *University of Delaware*

2:25pm [Flow Characteristics and Inundation of a Tidal Flat and Saltmarsh in Kent County, Delaware.](#)  
**Aline Pieterse, Jack A. Puleo, and Thomas E. McKenna,** *University of Delaware*

- 2:50pm [Hydrodynamic Modeling of a Tidal Estuary for Marsh Restoration and Optimization: Prime Hook National Wildlife Refuge, Milton, DE.](#)  
**Todd DeMunda**, *Atkins Global*
- 3:15pm [Tidal Marsh Restoration Design at Prime Hook National Wildlife Refuge.](#)  
**Susan Guiteras**, **Al Rizzo**<sup>1</sup>, **Arthur Coppola**<sup>1</sup>, **Annabella Larsen**<sup>1</sup>, **Michael Stroeh**<sup>2</sup>, **Jeff Tabar**<sup>3</sup>, **Todd DeMunda**<sup>3</sup>, **Pam Latham**<sup>3</sup>, **Walker Dawson**<sup>3</sup>, **Robert Scarborough**<sup>4</sup>, **Mike Mensinger**<sup>4</sup>, **Drexel Siok**<sup>4</sup>, **Kenneth Smith**<sup>4</sup>, **Christina Whiteman**<sup>4</sup>, **Bartholomew Wilson**<sup>5</sup>, <sup>1</sup>*U.S. Fish and Wildlife Service, Coastal Delaware National Wildlife Refuge Complex*, <sup>2</sup>*U.S. Fish and Wildlife Service, South Arkansas National Wildlife Refuge Complex*, <sup>3</sup>*Atkins Global*, <sup>4</sup>*Delaware Department of Natural Resources and Environmental Control, Delaware Coastal Programs*, <sup>5</sup>*Delaware Center for the Inland Bays*
- 3:40pm Effect of Hurricane Sandy on Salt Marshes of the Delaware Estuary and Barnegat Bay.  
**Tracy Quirk**, *Drexel University* **CANCELLED**

## **Session VI: Planning and Conservation**- Delaware Room

- 2:00pm [The Economic Value of the Brandywine Creek Watershed.](#)  
**Catherine Cruz-Ortiz** and **Kate Miller**, *University of Delaware*
- 2:25pm [Preparing for Tomorrow's High Tide: Recommendations for Adapting Wetlands Conservation and Management.](#)  
**Susan Love**, **Molly Ellwood**, and **Tricia Arndt**, *Delaware Department of Natural Resources and Environmental Control*
- 2:50pm Integrating Socio-ecological Research and Collaborative Learning to Increase Resilience to Sea-level Rise.  
**Brian A. Needelman**<sup>1</sup>, **Paul Leisnham**<sup>1</sup>, **Andrew H. Baldwin**<sup>1</sup>, **Robert L. Tjaden Jr.**<sup>1</sup>, **Dorothea Lundberg**<sup>1</sup>, **Diane Leason**<sup>1</sup>, **Michael J. Paolisso**<sup>1</sup>, **Katherine Joanne Johnson**<sup>1</sup>, **Patricia Delgado**<sup>2</sup>, **Sasha Land**<sup>2</sup>, **Chris Snow**<sup>2</sup>, **Lisa Wainger**<sup>1</sup>, and **Natallia Leuchanka**<sup>3</sup>, <sup>1</sup>*University of Maryland*, <sup>2</sup>*Chesapeake Bay National Estuarine Research Reserve*, <sup>3</sup>*University of New Hampshire* **CANCELLED**
- 3:15pm [The Effect of a Flood Mitigation Structure Utilizing Filtrexx® Land Improvement Systems on Flooding in the Town of Dewey Beach Bayard Avenue Watershed.](#)  
**Todd A. Fritchman**, *Envirotech*
- 3:40pm [Instituting a Challenge to a Plant's Indicator Status in the 2013 National Wetland Plant List.](#)  
**Glynn Rountree**<sup>1</sup> and **Jim McCulley**<sup>2</sup>, <sup>1</sup>*National Association of Home Builders*, <sup>2</sup>*Watershed Eco LLC*

4:05 pm Refreshments and Socializing

4:30 pm Adjourn

## **Poster Presentations**

### **Effects of Sea Level Rise on Freshwater Impoundments for Migratory Waterbirds.**

**Joshua N. Barth, Lori A. Lester, and Christopher M. Heckscher**, *Delaware State University*

### **Influences of Soil Composition and Measurement Time Span on Marsh Accretion Rates.**

**Brandon Boyd and Christopher K. Sommerfield**, *University of Delaware*

### **Wetland Monitoring and Assessment: Data Correlation from Rapid Assessment Method to Site-Specific Intensive Monitoring.**

**Jessie Buckner, Danielle Kreeger, Angela Padeletti, and Priscilla Cole**, *Partnership for the Delaware Estuary*

### **Determining the Effect of *Phragmites australis* on Blue Crab (*Callinectes sapidus*) Survival in Blackbird Creek, Delaware.**

**Akida J. Ferguson<sup>1</sup>, Kris Roeske<sup>1</sup>, and Michael G. Mensinger<sup>2</sup>**, <sup>1</sup>*NOAA Environmental Cooperative Science Center, Delaware State University*, <sup>2</sup>*Delaware National Estuarine Research Reserve*

### **How Environmental Planning Implements Wetland, Subaqueous Lands, and Other Natural Resource Protection Measures on Transmission, Distribution, and Substation Projects in DPL Service Territory.**

**Annina Hazel**, *Pepco Holdings Inc.*

### **How Well Do We Know Our Wetlands? The Remarkable Discoveries of *Photuris mysticalampas* and *Lejeunea maxonii* From the Nanticoke River Floodplain.**

**Christopher M. Heckscher<sup>1</sup>, William A. McAvoy<sup>2</sup>, and Lori A. Lester<sup>1</sup>**, <sup>1</sup>*Delaware State University*, <sup>2</sup>*Delaware Department of Natural Resources and Environmental Control*

### **Creating a value-based rapid wetland assessment method.**

**Matthew A. Jennette, Alison B. Rogerson, Margaret K. Pletta, and Andrew M. Howard**, *Delaware Department of Natural Resources and Environmental Control*

### **Effects of Nest Depredation and Anthropogenic Activities on Diamondback Terrapins (*Malaclemys terrapin*) in Delaware.**

**Lori A. Lester<sup>1</sup> and Jack S. Suss<sup>2</sup>**, <sup>1</sup>*NOAA Environmental Cooperative Science Center, Delaware State University*, <sup>2</sup>*Drexel University*

### **Predicting the Effects of Sea Level Rise on Wintering Waterfowl Carrying Capacity in Delaware.**

**Mark C. Livolsi<sup>1</sup>, Christopher K. Williams<sup>1</sup>, Matthew DiBona<sup>2</sup>, and John M. Coluccy<sup>3</sup>**, <sup>1</sup>*University of Delaware*, <sup>2</sup>*Delaware Department of Natural Resources and Environmental Control*, <sup>3</sup>*Ducks Unlimited*

Pre-Restoration Preliminary Ecohydrological Results of Atlantic Coast and Chesapeake Bay Ditched-Drained Marshes on Eastern Shore Maryland. **CANCELLED**

**Dorothea J. Lundberg and Brian A. Needelman**, *University of Maryland*

### **Establishing a Statewide Database for Delaware Sediment Elevation Tables (SETs).**

**Drexel Siok and Lyndie Hice-Dunton**, *Department of Natural Resources and Environmental Control*

### **Quantifying Carbon Accumulation and Stocks in Delaware Estuarine Wetlands.**

**Kaitlin Tucker and Christopher K. Sommerfield**, *University of Delaware*

### **Restoring Barren Island through Partnerships and Community Involvement.**

**Matt Whitbeck**, *U.S. Fish and Wildlife Service*